Exploring Aeronautics			
1997 Science			
Learning Standards			
Illinois Science			
Grades 4-5			
Activity/Lesson	**State**	**Standards**	
Wings(177-208)	IL	SCI.4-5.11.B.2e	Assess test results and the effectiveness of the design using given criteria and noting possible sources of error.
Wings(177-208)	IL	SCI.4-5.11.B.2f	Report test design, test process and test results.
Tools of Aeronautics(257-326)	IL	SCI.4-5.11.B.2c	Build a prototype of the design using available tools and materials.
Tools of Aeronautics(257-326)	IL	SCI.4-5.11.B.2e	Assess test results and the effectiveness of the design using given criteria and noting possible sources of error.
Tools of Aeronautics(257-326)	IL	SCI.4-5.11.B.2f	Report test design, test process and test results.
The Tools of Aeronautics	IL	SCI.4-5.11.B.2c	Build a prototype of the design using available tools and materials.
The Tools of Aeronautics	IL	SCI.4-5.11.B.2e	Assess test results and the effectiveness of the design using given criteria and noting possible sources of error.
The Tools of Aeronautics	IL	SCI.4-5.11.B.2f	Report test design, test process and test results.
Science of Flight	IL	SCI.4-5.11.A.2a	Formulate questions on a specific science topic and choose the steps needed to answer the questions.
Science of Flight	IL	SCI.4-5.11.A.2b	Collect data for investigations using scientific process skills including observing, estimating and measuring.
Science of Flight	IL	SCI.4-5.11.B.2e	Assess test results and the effectiveness of the design using given criteria and noting possible sources of error.
Science of Flight	IL	SCI.4-5.11.B.2f	Report test design, test process and test results.
Science of Flight	IL	SCI.4-5.13.B.2b	Describe the effects on society of scientific and technological innovations (e.g., antibiotics, steam engine, digital computer).
Integrating with Aeronautics	IL	SCI.4-5.11.A.2b	Collect data for investigations using scientific process skills including observing, estimating and measuring.
Intro to Aeronautics (109-123)	IL	SCI.4-5.13.B.2a	Explain how technology is used in science for a variety of purposes (e.g., sample collection, storage and treatment; measurement; data collection, storage and retrieval; communication of information).
Scientific Method(124-144)	IL	SCI.4-5.11.A.2a	Formulate questions on a specific science topic and choose the steps needed to answer the questions.
Scientific Method(124-144)	IL	SCI.4-5.11.A.2b	Collect data for investigations using scientific process skills including observing, estimating and measuring.

Scientific Method(124-144)	IL	SCI.4-5.11.A.2e	Report and display the results of individual and group investigations.
Scientific Method(124-144)	IL	SCI.4-5.11.B.2b	Develop a plan, design and procedure to address the problem identifying constraints (e.g., time, materials, technology).
Scientific Method(124-144)	IL	SCI.4-5.13.B.2a	Explain how technology is used in science for a variety of purposes (e.g., sample collection, storage and treatment; measurement; data collection, storage and retrieval; communication of information).
Exploring Aeronautics			
1997 Science			
Learning Standards			
Illinois Science			
Grades 6-8			
Activity/Lesson	**State**	**Standards**	
Wings(177-208)	IL	SCI.6-8.11.B.3c	Select the most appropriate design and build a prototype or simulation.
Tools of Aeronautics(257-326)	IL	SCI.6-8.11.B.3c	Select the most appropriate design and build a prototype or simulation.
Tools of Aeronautics(257-326)	IL	SCI.6-8.11.B.3f	Using available technology, report the relative success of the design based on the test results and criteria.
The Tools of Aeronautics	IL	SCI.6-8.11.B.3c	Select the most appropriate design and build a prototype or simulation.
The Tools of Aeronautics	IL	SCI.6-8.11.B.3f	Using available technology, report the relative success of the design based on the test results and criteria.
Science of Flight	IL	SCI.6-8.11.A.3a	Formulate hypotheses that can be tested by collecting data.
Science of Flight	IL	SCI.6-8.11.A.3b	Conduct scientific experiments that control all but one variable.
Science of Flight	IL	SCI.6-8.11.A.3c	Collect and record data accurately using consistent measuring and recording techniques and media.
Science of Flight	IL	SCI.6-8.11.B.3b	Sketch, propose and compare design solutions to the problem considering available materials, tools, cost effectiveness and safety.
Science of Flight	IL	SCI.6-8.11.B.3c	Select the most appropriate design and build a prototype or simulation.
Integrating with Aeronautics	IL	SCI.6-8.11.A.3e	Use data manipulation tools and quantitative (e.g., mean, mode, simple equations) and representational methods (e.g., simulations, image processing) to analyze measurements.
Scientific Method(124-144)	IL	SCI.6-8.11.A.3a	Formulate hypotheses that can be tested by collecting data.
Scientific Method(124-144)	IL	SCI.6-8.11.A.3b	Conduct scientific experiments that control all but one variable.
Scientific Method(124-144)	IL	SCI.6-8.11.A.3c	Collect and record data accurately using consistent measuring and recording techniques and media.

Scientific Method(124-144)	IL	SCI.6-8.11.A.3d	Explain the existence of unexpected results in a data set.
Scientific Method(124-144)	IL	SCI.6-8.13.A.3c	Explain what is similar and different about observational and experimental investigations.